

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P572197

Luminaire Tested: 24ID-70-L830-DBD

Issue Date: 10/5/2021

Test Information

Test Method: LM-79-2019
Report Number: P572197
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2109-397-8)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24ID-70-L830-DBD
Description: 7000 LUMEN, 2X4 INDEPTH TROFFER WITH 2IN DROPPED DOUBLE BARRELL LENS AND 3000K, 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

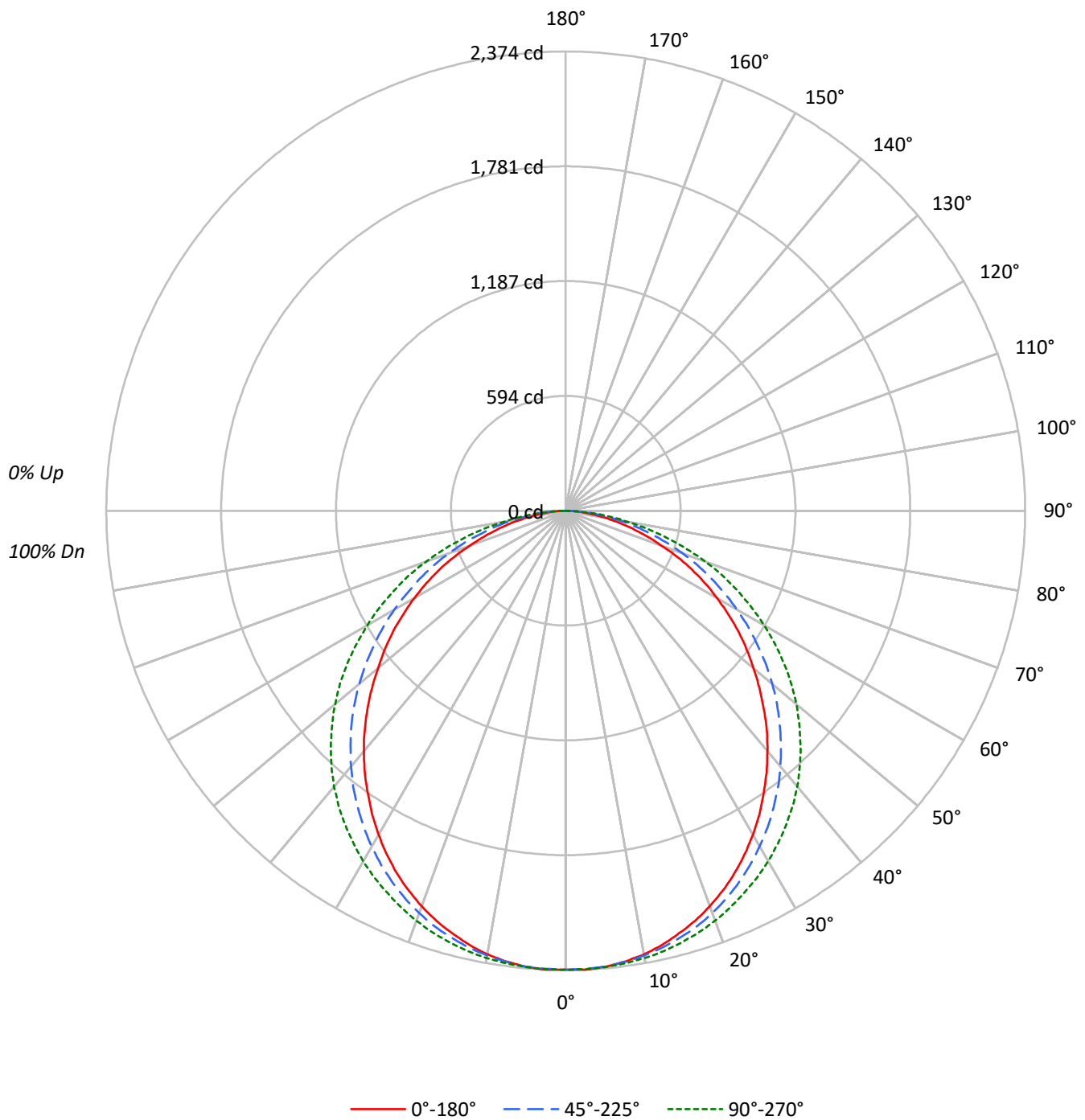
Lumens per Lamp: N/A
Luminaire Lumens: 6768.0 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.17')
CIE Type: Direct

Input Watts (W): 65.6
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		90
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		58	51	46		56
6	70	56	47	41	68	56	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3192	3192	3192
5°	3184	3171	3175
10°	3158	3141	3162
15°	3116	3108	3148
20°	3070	3071	3135
25°	3009	3022	3116
30°	2935	2963	3102
35°	2845	2897	3081
40°	2752	2821	3056
45°	2645	2735	3015
50°	2523	2638	2963
55°	2412	2516	2888
60°	2265	2383	2784
65°	2097	2226	2645
70°	1857	2027	2444
75°	1604	1746	2147
80°	1269	1420	1679
85°	874	878	1009

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3015 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.9	3.3
10°-20°	645.3	9.5
20°-30°	978.1	14.5
30°-40°	1176.6	17.4
40°-50°	1214.7	17.9
50°-60°	1091.5	16.1
60°-70°	831.0	12.3
70°-80°	477.2	7.1
80°-90°	128.7	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1848.3	27.3
0°-40°	3024.9	44.7
0°-60°	5331.1	78.8
0°-90°	6768.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6768.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2366	2368	2366	2364	2368	225
15°	2262	2273	2284	2300	2311	638
25°	2066	2086	2119	2163	2181	951
35°	1782	1813	1873	1954	1985	1116
45°	1448	1481	1565	1672	1716	1117
55°	1089	1118	1208	1325	1378	972
65°	717	750	832	929	979	709
75°	356	390	447	510	541	378
85°	84	97	114	121	128	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2372.3	2372.3	2372.3	2372.3	2372.3
2.5°	2374.5	2374.5	2370.1	2367.9	2372.3
5°	2365.7	2367.9	2365.7	2363.5	2367.9
7.5°	2350.3	2352.5	2352.5	2354.7	2359.1
10°	2328.3	2332.7	2334.9	2341.5	2348.1
12.5°	2299.7	2304.1	2312.9	2323.9	2332.7
15°	2262.3	2273.3	2284.3	2299.7	2310.7
17.5°	2222.6	2235.8	2253.5	2273.3	2286.5
20°	2176.4	2191.8	2213.8	2240.2	2255.7
22.5°	2123.6	2143.4	2169.8	2202.8	2220.4
25°	2066.4	2086.2	2119.2	2163.2	2180.8
27.5°	2002.6	2024.6	2064.2	2114.8	2139.0
30°	1934.4	1958.6	2004.8	2066.4	2092.8
32.5°	1861.7	1888.1	1941.0	2011.4	2040.0
35°	1782.5	1813.3	1872.7	1954.2	1985.0
37.5°	1705.5	1736.3	1802.3	1890.3	1925.6
40°	1621.9	1654.9	1725.3	1822.1	1861.7
42.5°	1538.2	1566.9	1646.1	1749.5	1791.3
45°	1448.0	1481.0	1564.7	1672.5	1716.5
47.5°	1357.8	1393.0	1481.0	1591.1	1637.3
50°	1265.4	1302.8	1393.0	1505.2	1555.9
52.5°	1179.5	1210.4	1302.8	1417.2	1470.0
55°	1089.3	1117.9	1208.1	1324.8	1377.6
57.5°	994.7	1027.7	1117.9	1228.0	1280.8
60°	902.3	935.3	1021.1	1131.1	1183.9
62.5°	812.0	842.8	926.5	1032.1	1084.9
65°	717.4	750.4	831.8	928.7	979.3
67.5°	625.0	660.2	737.2	825.2	878.1
70°	526.0	565.6	640.4	721.8	763.6
72.5°	437.9	475.3	543.6	616.2	655.8
75°	356.5	389.5	446.7	510.5	541.4
77.5°	275.1	310.3	360.9	409.3	433.5
80°	202.5	235.5	275.1	308.1	319.1
82.5°	138.6	162.8	191.5	209.1	224.5
85°	83.6	96.8	114.4	121.0	127.6
87.5°	35.2	39.6	46.2	44.0	46.2
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.64	16.28	15.00	16.59	16.91	16.10	17.75	16.47	18.06	18.38
	3H	16.20	17.69	16.58	18.02	18.38	18.00	19.49	18.38	19.82	20.18
	4H	16.72	18.12	17.12	18.47	18.85	18.71	20.11	19.10	20.45	20.83
	6H	17.05	18.35	17.46	18.72	19.11	19.20	20.50	19.61	20.86	21.25
	8H	17.14	18.38	17.56	18.76	19.16	19.34	20.58	19.77	20.97	21.37
	12H	17.18	18.37	17.61	18.75	19.18	19.42	20.61	19.85	20.99	21.42
4H	2H	15.39	16.79	15.79	17.14	17.51	16.56	17.96	16.96	18.31	18.68
	3H	17.16	18.33	17.57	18.73	19.13	18.67	19.85	19.08	20.25	20.65
	4H	17.78	18.85	18.21	19.26	19.69	19.51	20.57	19.94	20.99	21.42
	6H	18.22	19.15	18.67	19.59	20.04	20.13	21.06	20.59	21.50	21.96
	8H	18.33	19.20	18.79	19.64	20.11	20.32	21.19	20.78	21.63	22.10
	12H	18.40	19.18	18.88	19.66	20.13	20.44	21.22	20.92	21.69	22.16
8H	4H	18.16	19.03	18.62	19.48	19.94	19.70	20.57	20.16	21.02	21.48
	6H	18.70	19.43	19.20	19.91	20.39	20.43	21.15	20.92	21.64	22.11
	8H	18.87	19.52	19.38	20.03	20.51	20.67	21.32	21.18	21.83	22.31
	12H	18.98	19.56	19.49	20.05	20.61	20.85	21.42	21.35	21.91	22.47
12H	4H	18.21	19.00	18.69	19.47	19.94	19.71	20.49	20.19	20.97	21.44
	6H	18.77	19.43	19.28	19.93	20.42	20.44	21.10	20.95	21.60	22.09
	8H	18.99	19.57	19.50	20.06	20.62	20.74	21.31	21.24	21.80	22.36

END OF REPORT